FOCEPT-05/26/00

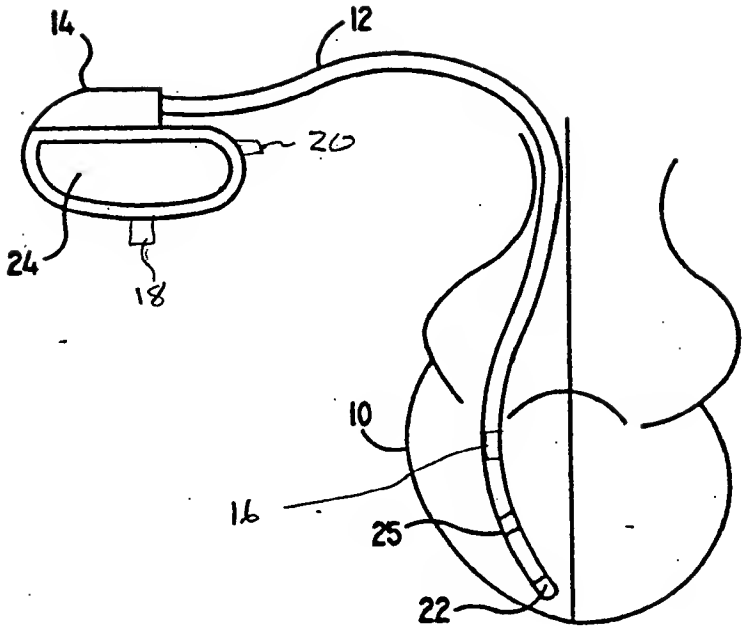

FIG. 1

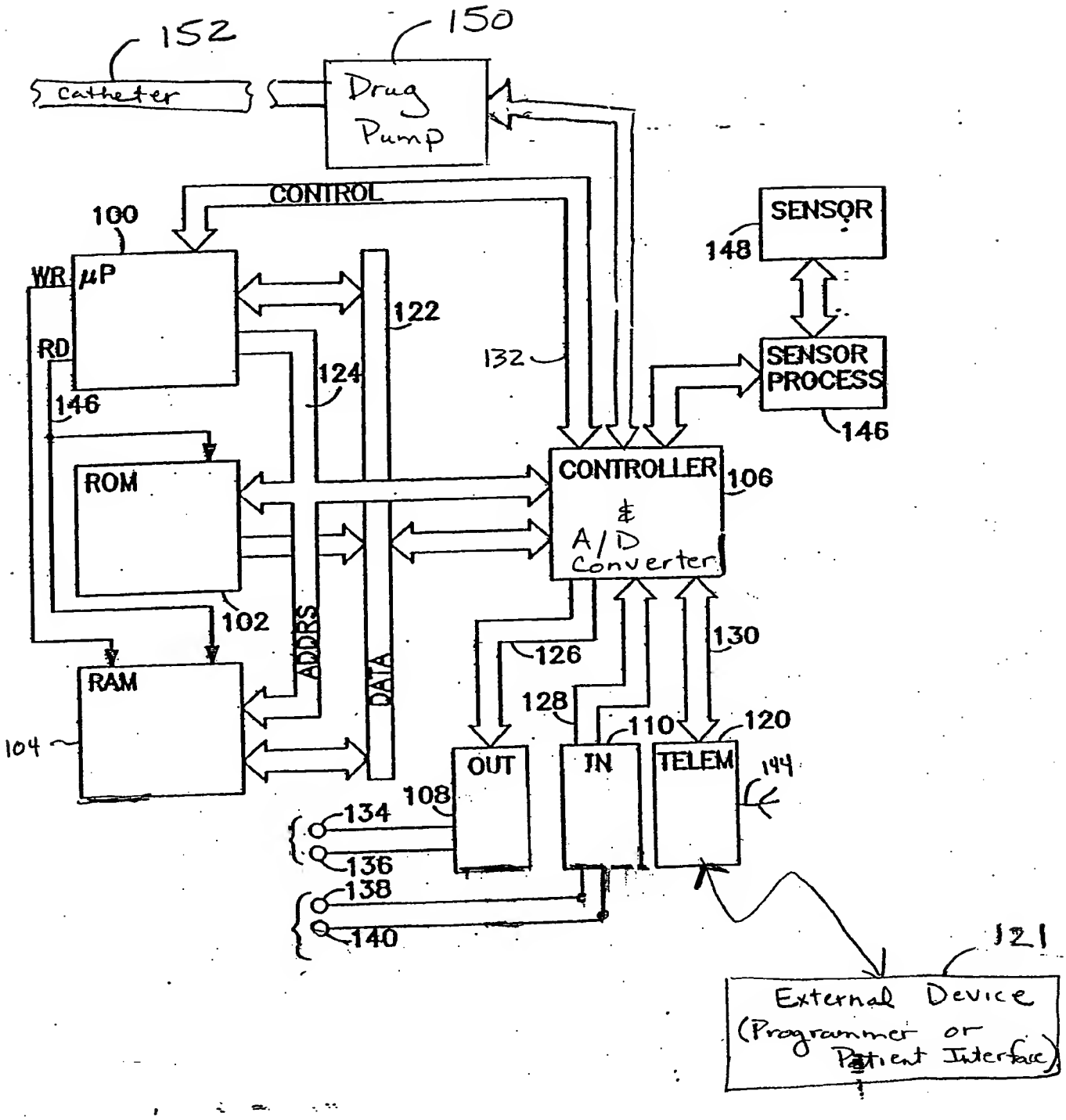
152
150
Catheter
Drug Pump
CONTROL
100
WR
μP
RD
146
122
124
132
SENSOR
148
SENSOR PROCESS
146
ROM
102
CONTROLLER & A/D Converter
106
RAM
104
ADDRS
DATA
126
130
128
110
120
OUT
IN
TELEM
144
108
134
136
138
140
121
External Device (Programmer or Patient Interface)

Figure 2

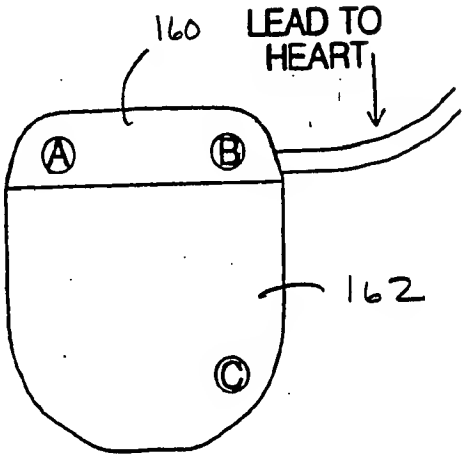

FIG. 3A

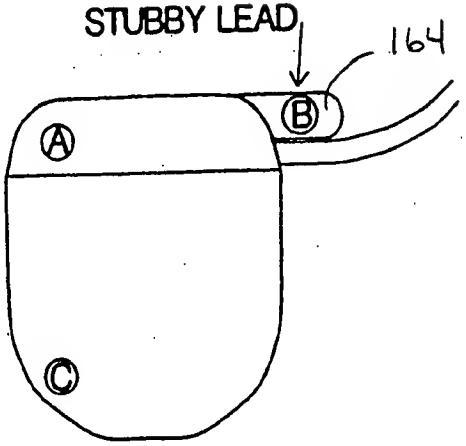

FIG. 3B

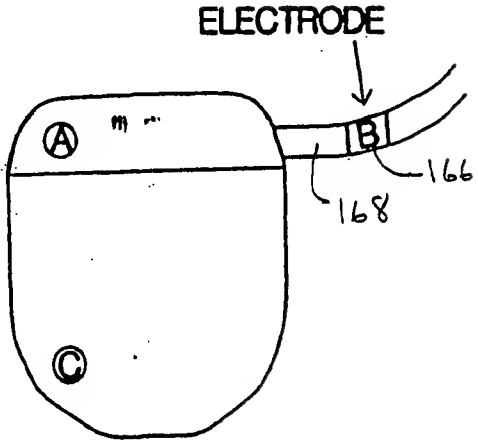

FIG. 3C

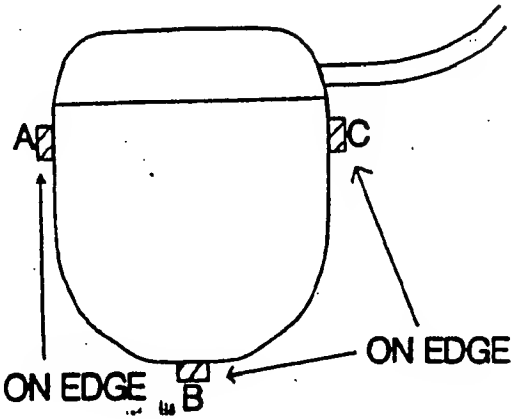

FIG. 3D

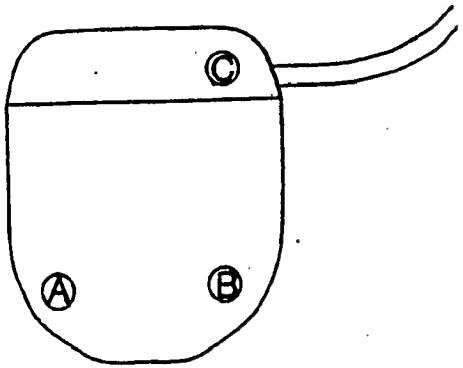

FIG. 3E

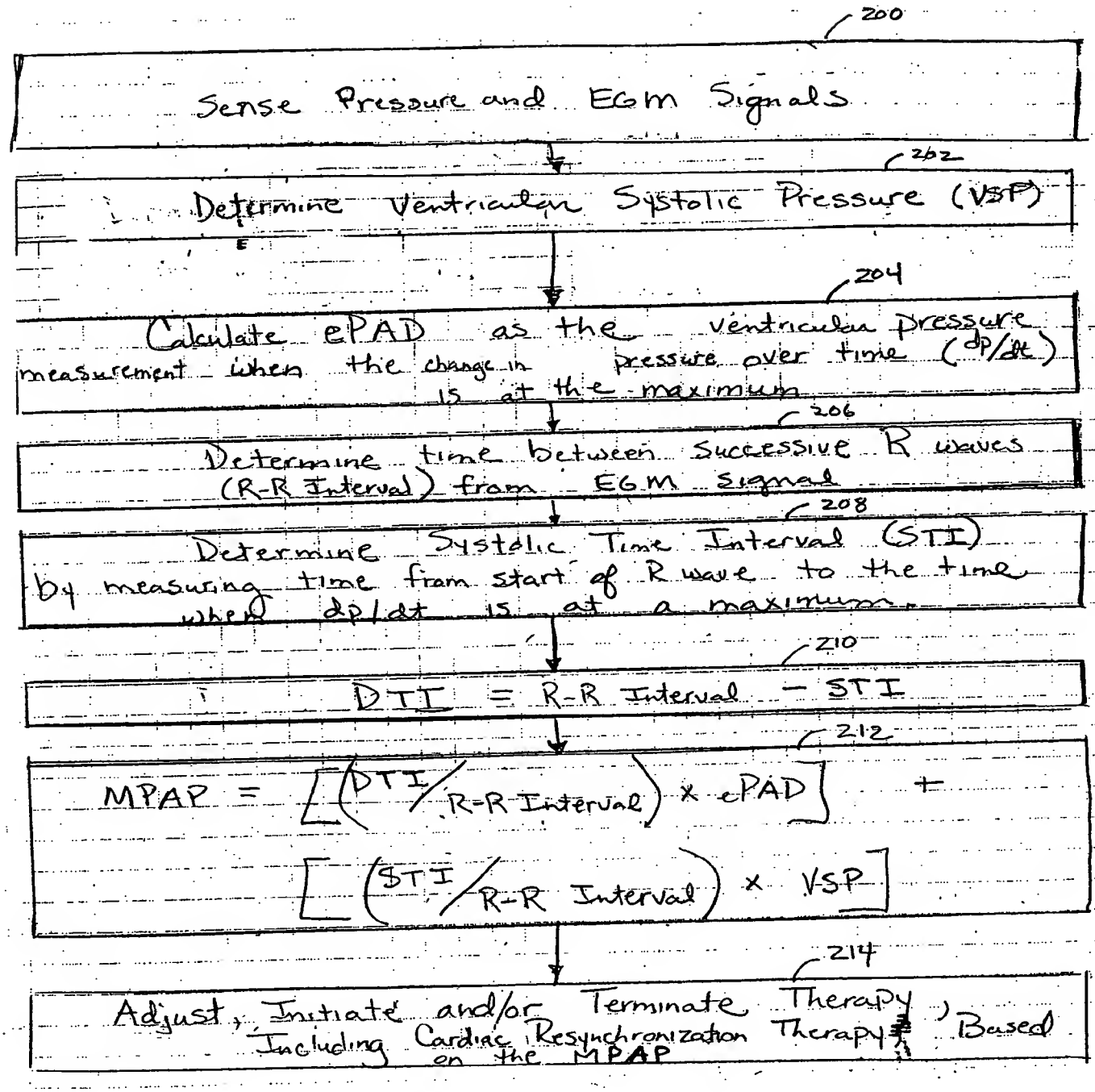
200
Sense Pressure and EGM Signals
202
Determine Ventricular Systolic Pressure (VSP)
204
Calculate ePAD as the ventricular pressure measurement when the change in pressure over time (dP/dt) is at the maximum
206
Determine time between successive R waves (R-R Interval) from EGM signal
208
Determine Systolic Time Interval (STI) by measuring time from start of R wave to the time when dP/dt is at a maximum.
210
DTI = R-R Interval − STI
212
MPAP = [(DTI / R-R Interval) × ePAD] + [(STI / R-R Interval) × VSP]
214
Adjust, Initiate and/or Terminate Therapy, Including Cardiac Resynchronization Therapy, Based on the MPAP

Figure 4

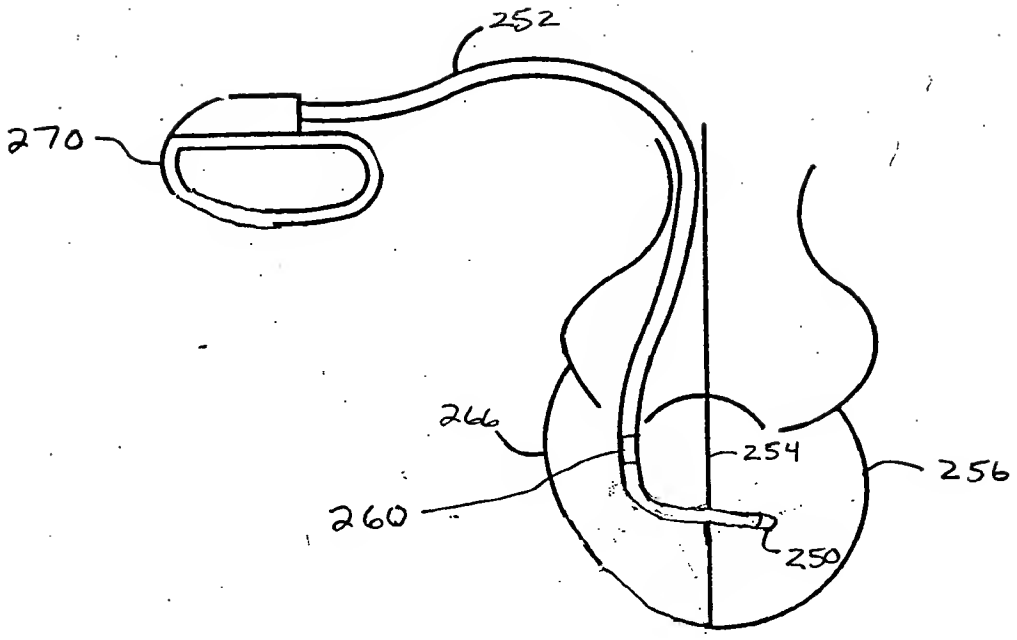

FIG. 5

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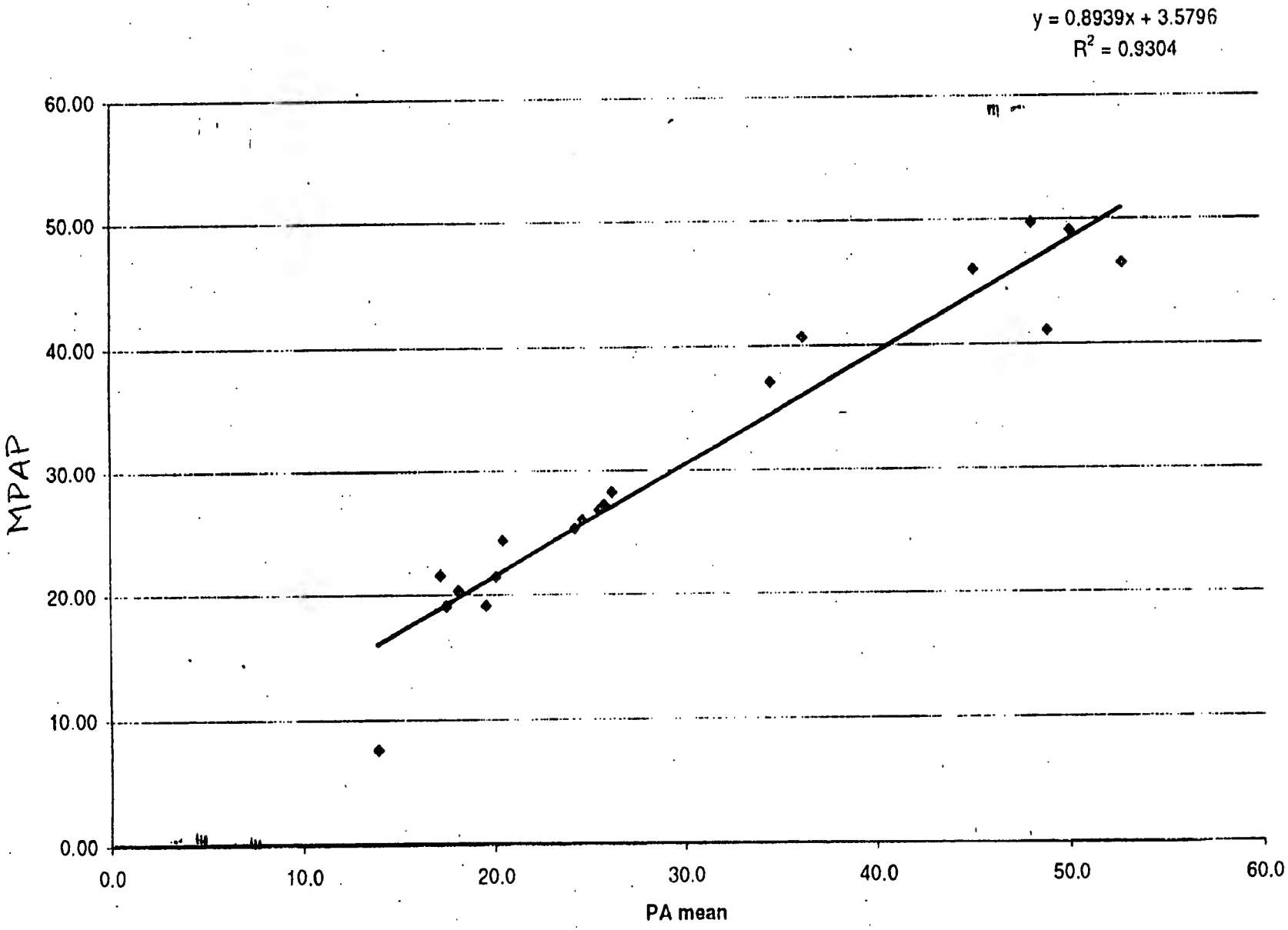

Figure 6